

YANAGIDA ET AL. - Application No. 10/540,747
Attorney Docket: 061069-0316399

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IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. *(Currently Amended):* A label applying apparatus comprising:
a main body at a rear end of which a grip portion is formed;
a manual lever pivotally supported by the main body, ~~the manual lever defining one arm comprising a control unit and another arm comprising~~ having a partial gear portion at its end, ~~control unit being biased and an operating arm;~~
a spring connected between the grip portion and the manual lever, to bias the manual lever in a direction away from the grip portion by a spring, a forward rotation of the partial gear portion occurring when the manual lever and the grip portion are squeezed together against the spring bias, and, due to the spring bias, a return rotation of the partial gear portion occurring when either the control unit or the grip portion are released;
a holder portion arranged at the main body, ~~wherein the holder portion accommodates~~ and accommodating a composite label web in which many labels are temporarily adhered in series at a predetermined interval on a backing paper web;
an applying roller arranged rotatably at a tip portion of the main body;
a turning pin arranged at the main body for reversing a transfer direction of the backing paper web to bring at least one temporarily adhered label to an underside of the applying roller at a position nearest to an upstream side of the applying roller, the upstream side being defined as a transfer direction in which the composite label web is fed from the holder portion, and for at least partially delaminating the temporarily adhered label adjacently to the applying roller, slidably contacted with the backing paper web which is fed from the holder portion, and leading the baking paper web to a bottom of the main body after a foremost label is peeled off from the packing paper web;
a bottom lid directing the backing paper web into pivots supported at the bottom of the main body to open and close, and preventing the backing paper web from moving in a direction opposite to the transfer direction of the backing paper web;
~~a backing paper web transfer component facing the backing paper web adjacent to an interior side of the bottom lid, wherein a forward movement of the backing paper web~~

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~~transfer component, which does not affect movement of the backing paper web, and a return movement of the backing paper web transfer component, which transfers the backing paper web, are transmitted from the manual lever via the forward rotation and the return rotation of the partial gear sending lever pivotally supported on the main body and having a partial gear portion that meshes with the partial gear portion of the manual lever;~~

~~a feed component arranged adjacent to the backing paper web transfer component, the feed component being arranged to slide on a surface of the backing paper web, along with an escape direction, during the forward movement of the backing paper web transfer component, to transfer the backing paper web transfer component, and to transfer the backing paper web in a reversed direction during the return movement by biting the backing paper web slide base slidably mounted at the bottom of the main body and connected with the sending lever such as to be movable relative thereto;~~

~~a pair of feed teeth pivotally mounted on the slide base and engagable with the backing paper web which is led to the bottom of the main body;~~

~~a stop detection sensor piece arranged adjacent to the backing paper web transfer component to stop the return movement of the backing paper web transfer component according to a length of the label pivotally mounted on the slide base;~~

~~an automatic a stop component having a stop action portion, the automatic stop component being lever pivotally supported on the main body and engagable with the stop detection sensor piece;~~

~~a stop release component which is plate pivotally supported on the main body and is rotated at the a final stage of the forward a rotation of the manual sending lever or the forward movement of the backing paper web transfer component;~~

~~a connection component which is connecting frame pivotally supported on the main body, the automatic stop component being loosely fitted therein, wherein the connection component is biased away from the stop piece of the backing paper web transfer component by an actuator connected with the stop lever such as to be movable relative thereto, and capable of disengaging the stop lever from the stop detection sensor piece; and~~

~~a label sensor which is pivotally supported on the connecting component, wherein a spring extends between the connecting component and the label sensor frame and having a sensor blade which is engageable with a front edge of the foremost label on the backing paper web;~~

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wherein, through the connecting component, when the automatic stop component is pressed and rotated against a bias by rotation of the stop release component, the label sensor rises up to depart from the front edge of the label waiting to be delaminated, and immediately after the return rotation of the partial gear portion or after the backing paper web transfer component is interlocked and the rotation of the stop release component releases the automatic stop component from pressing, the label sensor goes down on the delaminating label and waits for arrival of the front edge of the following label, and furthermore, by transferring the backing paper web upon release operation of the manual lever, the label sensor is displaced against the tension of the spring in response to the reaction force by touch of the front edge of the following label, consequently, by rotation of the automatic stop component via rotation against the bias of the connecting component, the return movement of the backing paper web transfer component is stopped by an amount corresponding to the length of the label, and an amount of grasp operation to the grip the manual lever for preparation of delaminating the following label is substantially proportional to the length of the label in a release travel of the manual lever from its fully grasped position, firstly, the backing paper web is transferred by the sending lever and the slide base, the foremost label is peeled off from the backing paper web by the turning pin, the stop lever is rotated through the label sensor and the connecting frame by engagement of the stop lever with the stop detection sensor piece, and the transfer of the backing paper web is completed.